

**AMENDMENTS TO THE ABSTRACT**

Please amend the abstract as follows:

A device 20 for detecting a resonant frequency comprises a sound source ~~means 21~~, a ~~switch~~, a ~~mixer~~, ~~signal-synthesization-switching means 26 and 27~~, and a sound meter measuring means 25. The switch and mixer ~~signal-synthesization-switching means 26 and 27~~ are capable of switching between a first state in which the switch and mixer output signal synthesization-switching means 26 and 27 outputs a measurement signal and a second state in which the switch and mixer output ~~signal-synthesization-switching means 26 and 27~~ outputs a synthesized signal containing the measurement signal and the signal output from a microphone [[14]]. The device 20 detects the resonant frequency based on comparison between the first amplitude frequency characteristic measured in the first state and the second amplitude frequency characteristic measured in the second state.